



## **PUBLIC NOTICE**

### **File # NR17MS.004**

Pursuant to Chapter 0400-40-07 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit (ARAP) and §401 Water Quality Certification. This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

#### **PERMIT COORDINATOR**

Dan Murray  
865-594-5549  
Dan.murray@tn.gov

#### **APPLICANT**

Mr. Anthony Russo, Environmental Specialist  
Vulcan Construction Materials  
115 East Park Drive, Suite 100  
Brentwood, TN 37027

#### **LOCATION**

Hermitage Quarry 5301 Old Hickory Blvd., Hermitage, TN  
Latitude 36.1840, Longitude -86.6138

#### **PROJECT DESCRIPTION/PURPOSE**

Vulcan Construction Materials has applied to renew authorization under an individual ARAP to remediate impacts associated with sinkholes that periodically develop in Stoner's Creek and an unnamed tributary to Stoners Creek. These sinkholes potentially divert stream flow away from the stream and into the quarry pit via the karst geology in the vicinity. Vulcan Construction Materials, LP, currently conducts the stream restoration activities in Stoners Creek under the coverage of ARAP NR12MS.002 which expires August 16, 2017. Vulcan has previously plugged these sinkholes as they develop to minimize the impact from these karst features and to maintain surface flow in the affected stream reaches. The new permit would include restoration activities in Stoner's Creek and the unnamed tributary to Stoner's Creek. The applicant proposes to minimize disturbance in the stream reaches to that necessary to coffer the sinkholes and conduct plugging activities in the dry with a proprietary polyurethane grout product or a flowable fill grout type product. Stream bank and in-stream aquatic habitat enhancements will be installed to minimize and mitigate for any riparian disturbances resulting from activities to gain access to the sinkholes. Additionally, 380 linear feet of wet weather conveyance, part of the unnamed tributary to Stoner's Creek, is to be encapsulated to convey surface flow across a reach of channel affected by sinkholes. Vulcan Construction Materials will also implement a monitoring plan for the project to document the formation of new sinkholes and evaluate the success of stream restoration activities.

#### **POINTS OF IMPACT**

**Impact 1:** Stoner's Creek – The applicant proposes to conduct plugging activities with a proprietary polyurethane grout product or a flowable fill grout type product to prevent surface flow migration from the stream channel via karst features to the quarry.

**Impact 2:** Unnamed tributary to Stoner's Creek - The applicant proposes to conduct plugging activities with a proprietary polyurethane grout product or a flowable fill grout type product to prevent surface flow migration from the stream channel via karst features to the quarry.

**Impact 3:** Unnamed tributary to Stoner's Creek - The applicant proposes encapsulating 380 linear feet of wet weather conveyance conveying surface water from the upstream watershed across a karst area and tying in to an existing culvert. Several large sinkholes have developed in the vicinity of the proposed culvert that present a potential engulfment hazard.

**WATERSHED/WATERBODY DESCRIPTION:** The affected waters are in the Cumberland River Basin – Stones River Watershed (HUC TN05130203035). For more information on this or any Tennessee watershed, please visit our [TN Basins webpage](#).

**Ecoregion**

71h Outer Nashville Basin

**Stream Name / ID:**

Stoners Creek; Unnamed tributary / TN05130203\_1000

Designated Use	Use Support	Causes	Sources
livestock watering & wildlife	fully supporting		
irrigation	fully supporting		
recreation	not supporting	Escherichia coli	Land Development Collection System Failure
fish & aquatic life	not supporting	Loss of biological integrity due to siltation Escherichia coli	Land Development Collection System Failure

To view the proposed location of these impacts and the watershed condition visit <http://tdeconline.tn.gov/dwr/> and search the file/permit number listed in the title of this Public Notice.

**DETERMINATIONS**

In Accordance with the Tennessee Antidegradation Statement (*Rule 0400-40-03-.06*), the Division has made a preliminary determination that the proposed activities will not result in greater than *de minimis* degradation to water quality. The applicant proposes activities that avoid or minimize new impacts to waters consistent with the TOTAL MAXIMUM DAILY LOAD (TMDL) For Siltation & Habitat Alteration in The Stones River Watershed (HUC 05130203), approved July 29, 2002.

**FACTORS CONSIDERED**

In deciding whether to issue or deny a permit, the Division will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The Division shall consider practicable alternatives to the alteration. The Division shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

## **HOW TO COMMENT**

Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within THIRTY (30) DAYS of the date that this notice is posted. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the Division's address listed below and to the attention of the permit coordinator.

## **PUBLIC HEARING**

Interested persons may request in writing that the Division hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that a hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the Division will hold a public hearing. Send all public hearing requests to the Division's address listed below and to the attention of the permit coordinator.

## **APPEAL**

Please be advised that a petition for permit appeal may be filed, pursuant to *T.C.A. Section 69-3-105, subsection (i)* and Rule 0400-40-05, by the permit applicant or by any aggrieved person who participated in the public comment period announced by this notice. This petition must be filed within THIRTY (30) DAYS after public notice of the issuance of the permit. The petition must specify what provisions are being appealed and the basis for the appeal. It should be addressed to the technical secretary of the Tennessee Board of Water Quality, Oil and Gas. A copy of the filing should also be sent to TDEC's Office of General Counsel. The mailing addresses follow:

Tisha Calabrese Benton  
Acting Technical Secretary  
Board of Water Quality, Oil and Gas  
William R. Snodgrass TN Tower  
312 Rosa L. Parks Avenue, 12<sup>th</sup> Fl  
Nashville, TN 37243-1102

Jenny L. Howard-General Counsel  
Office of General Counsel  
William R. Snodgrass TN Tower  
312 Rosa L. Parks Avenue, 2<sup>nd</sup> Fl  
Nashville, TN 37243-1102

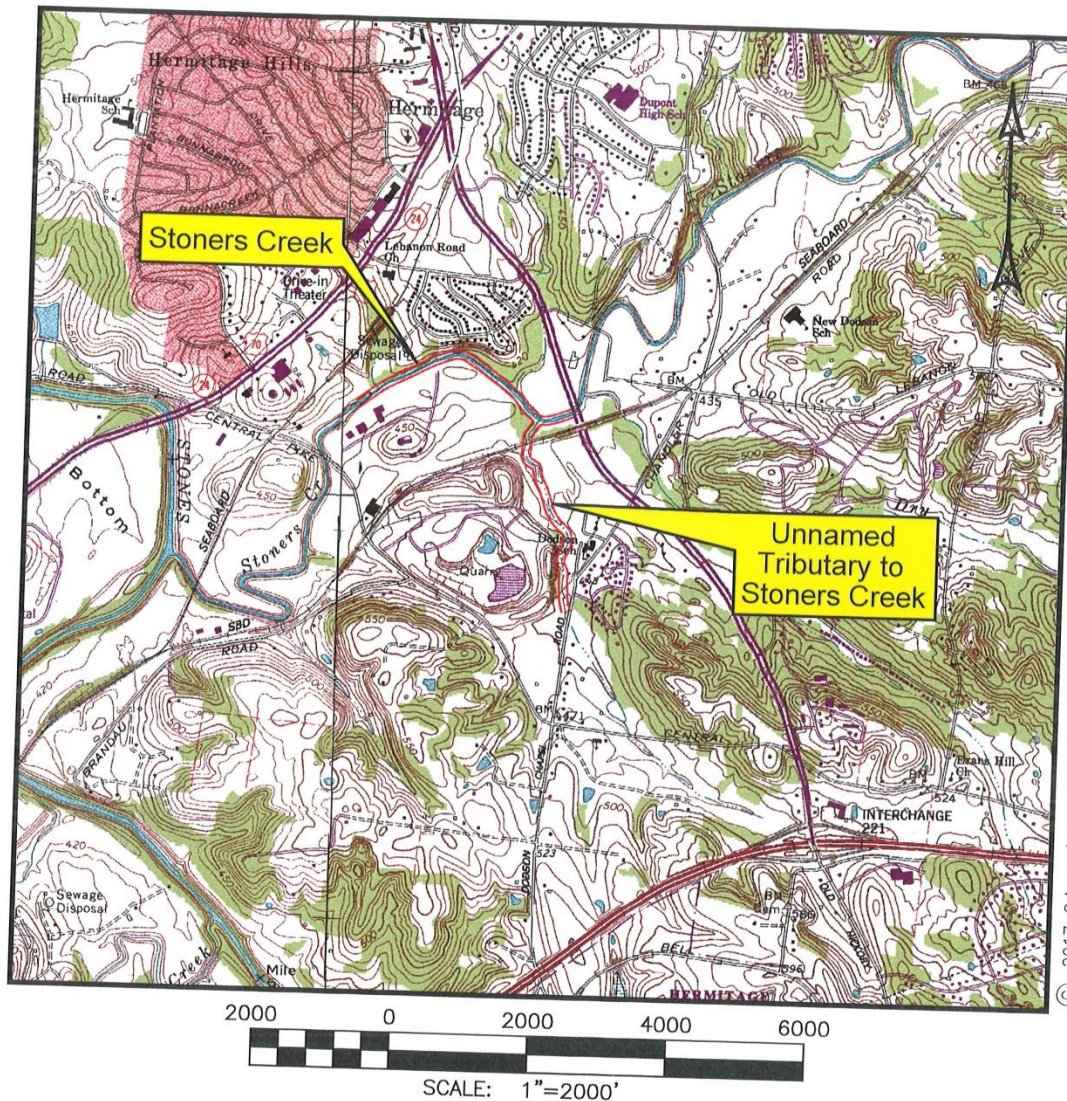
Any hearing would be in accordance with *T.C.A. §§69-3-110 and 4-5-301 et seq.*

## **FILE REVIEW**

Copies of the permit application, supporting documentation including detailed plans and maps are available for review on the internet at the Division's [Water Resources Permit Data Viewer](#). The file may be viewed in person at the Division's address (listed below) for review and/or copying.

Kara Blevins (865) 594-5460  
Tennessee Department of Environment & Conservation  
Division of Water Resources - Mining Section  
3711 Middlebrook Pike  
Knoxville, TN 37921-6538





Taken from: U.S.G.S.  
7.5 Minute Series (Topographic)  
Hermitage Quadrangle  
1968, Photorevised 1983

**GRIGGS & MALONEY  
INCORPORATED**  
Engineering & Environmental Consulting

P.O. BOX 2968, MURFREESBORO, TN 37133-2968  
(615) 895-8221 \* FAX (615) 895-0632

FILE NAME: L: \Enviro\Active\112-388\Drawings\112-388 Fig 1 Site Location on Topo.dwg

Figure 1  
Site Location Map  
ARAP/NWP  
Vulcan Construction Materials  
Hermitage Quarry  
Hermitage, Davidson County, Tennessee  
Project No. 112-388 February, 2017

JUN 26 2017





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FILE NAME: L: \Enviro\Active\112-388\Drawings\112-389 Fig 2 Culvert Location.dwg



Figure 2  
Site Detail Map

ARAP/NWP  
Vulcan Construction Materials  
Hermitage Quarry  
Hermitage, Davidson County, Tennessee  
Project No. 112-388 June, 2017

JUN 26 2017